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Air Operating Permit Excess Emissions Report Form Part II

Name of Facility	Shell, Puget Sound Refinery	Reported by	Tim Figgie
Date of notification	March 21, 2012	Incident type: breakdown/ upset/start or shutdown	Shutdown tup
Start Date	March 21, 2012	Start Time:	6:00 AM
End Date	March 21, 2012	End Time:	7:00 AM
Process unit or system	n(s): Cogen #3		
Incident Description			
		M the Cogen #3 was shut	
thermocouple. During	g the shutdown an actu	ator pin failed on the inle	et guide vane positioner
		le could be repaired. On permissive alarms so that	
		g the unit startup. These	
part of startup. This ϵ	event resulted in a 1-ho	our average CO reading a	bove the 22-ppm average
limit.	The second secon	and a second control of	zzi z mie zz ppin average
		n and/or quantity of exces	ss emissions:
These emissions are a	normal part of startup		
Appliants at a security			
Applicable air operatin	ig permit term(s): 5.29		
Estimated Excess Emis	ssions: Pollutant(s): Pounds (I	Estimate):
	co `	0.1	-5tillac5).
Based on CEMS and calculat flow	ted stack		
		(check all that apply):	A mag
	equipment startup		
	equipment shutdown		
	dequate design oor, or inadequate ope	ration .	
	dequate maintenance	iation	
	ly preventable condition	on	
	e any complaints from		
⊠ No		•	
	le details below)		
Did the incident resu	lt in the violation of an	ambient air quality stand	lard
		and a contract of a size of and an angle of	Company (Company)
IXI Ma			
⊠ No □ Yes (provid	e details helow)		
9 200	e details below)		

The root cause of the incident was:

These emissions are a normal part of startup.

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(The retention of records of all required monitoring data and support information shall be kept for a period of five years from the date of the report as per the WAC regulation (173-401-615))
Identified for the first time
Identified as a recurrence (explain previous incident(s) below – provide dates)
Other startups have occurred.
Are the emissions from the incident exempted by the NSPS or NESHAP "malfunction" definitions
below?
☐ No ☐ Yes (describe below)
These emissions are a normal part of startup and are unavoidable. Definition of NSPS "Malfunction": Any sudden, infrequent, and not reasonably preventable failure of air pollution control
equipment, process equipment, or failure of a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 60.2
<u>Definition of NESHAP "Malfunction"</u> : Any sudden, infrequent, and not reasonably preventable failure of air pollution
control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that
are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 63.2
Analyses of measures available to reduce likelihood of recurrence (evaluate possible design,
operational, and maintenance changes; discuss alternatives, probable effectiveness, and cost;
determine if an outside consultant should be retained to assist with analyses):
These emissions are a normal part of startup and are unavoidable.
Description of corrective action to be taken (include commencement and completion dates):
See above
If correction not required, explain basis for conclusion:
See above
Attach Reports, Reference Documents, and Other Backup Material as Necessary. This report satisfies the requirements of both NWCAA regulation 340, 341, 342 and the WAC regulation (173-400-107). Is the investigation continuing? No Yes
Is the source requesting additional time for completion of the report? ⊠No ☐Yes
Based upon information and belief formed after reasonable inquiry, I certify that the statements and information in this document and all referenced documents and attachments are true, accurate and complete.
Prepared By: _ Tim Figgie Date:March 21, 2012
Responsible Official or Designee: 14/26/12